

## **TAG QUARTERLY PROGRESS REPORT**

Date: November 14, 2018  
Report Number: 106  
Report Period: July-September 2018  
Site: **Butte Area/Silver Bow Creek**  
Grant Recipient: Citizens Technical Environmental Committee (CTEC)  
Technical Advisors: Kirk Engineering & Natural Resources, Inc.

### **PROGRESS ACHIEVED**

- . CTEC Technical Assistance Grant award approved by EPA in the amount of \$50,000. July 23, 2018. 100871001-S.
- . Amended Kirk Engineering Technical Assistance contract for 12 additional months to July 5, 2019. An additional \$20,000 was added to the budget.
- . Amended Technical Assistance Grant Coordinator contract for an additional 24 months to September 1, 2020. An additional \$18,304 was added to the budget.
- . Health monitoring public meeting working group meetings and public meeting. Steve Ackerlund – CTEC Technical Advisor.
- . Worked with EPA on storm pond siting data – Ian Magruder – CTEC Technical advisor
- . Technical advisors reviewed K Haier and S McDermott health studies.
- . NIH/INBRE Grant CTEC/Mt Tech: Bridging the Gap: Evaluating Environmental Health Risk Perceptions for Better Community Engagement. Grant approved July 2018.
- . Attended the Upper Silver Bow Creek Corridor Community Design Workshops. August 7 and August 30, 2018.
- . Met EPA Regional Administrator Doug Benevento/Acting EPA Administrator Andrew Wheeler during their visit to Butte September 7, 2018.
- . CTEC sponsored a pavilion at the Butte Farmer's Market inviting other local environmental entities June - October.
- . Sponsored 3 meetings open to the public.
- . Provided technical assistance to 30 members of the public at CTEC office.

#### CTEC Board of Directors Meeting (all board meetings are open to the public)

- . Mt Pole Tour and meeting – July 19, 2018.
- . Health Meeting – July 24, 2018.
- . Board meeting – September 6, 2018

#### CTEC Public Presentations/ Events

- . CTEC Sponsored Mt Pole Tour – July 19, 2018.
- . BSB Health Monitoring Meeting – Phase 2. July 24, 2018 – Steve Ackerlund (summary attached)
- . Montana Public Radio – CTEC/INBRE Butte’s Environmental health risk perceptions. Janice Hogan and Bill Macgregor. September 5, 2018.
- . Farmers Market pavilion June – October. CTEC board and guests answering questions and listening to concerns from the public.
- . “Worth the Wait - The 30 Year Cleanup of One of the Nation’s Largest Superfund Sites” at the CTEC Office.
- . KBMF Butte America Radio.org - CTEC board members - Superfund 101 Interviews.

#### Non-CTEC meetings/tours attended by CTEC staff and/or Board:

- . Upper Silver Bow Creek Corridor Community Design Workshops. August 7 and August 30, 2018.
- . Butte Natural Resource Damage Restoration Council. September 20, 2018.
- . EPA Regional Administrator Doug Benevento/Acting EPA Administrator Andrew Wheeler visit Butte September 7, 2018.
- . Restore Our Creek meetings - weekly.
- . University of Mt - MT Tech Remediation/Restoration Seminar Series.
- . Butte-Silver Bow-Butte Superfund Advisory Redevelopment Trust Committee Meetings (SARTA).
- . Citizens for Labor and Environmental Justice Meetings (CLEJ).

#### Documents Reviewed and/or comments provided:

- . Technical advisors reviewed K Haier and S McDermott health studies.
- . Health monitoring meeting summary, July 24, 2018 – Steve Ackerlund. CTEC Technical Advisor.
- . Other documents were reviewed at varying levels by CTEC board members or advisors when they were received.

#### **DIFFICULTIES ENCOUNTERED:**

- . Focusing on the most effective ways to spend TAG funds. Butte area is a very large and complex site.
- . Increasing public involvement.
- . Updating Technical Advisor roles.
- . Personnel changes: EPA Director – Scott Pruitt replaced by Andrew Wheeler.

#### **MATERIALS PRODUCED THIS PERIOD:**

- . Summary of all reports received by the CTEC office from 2010 through September 30, 2018.
- . Summary of media on Butte Superfund remediation/restoration. 2015-2018.
- . Health Study Meeting summary July 24, 2018. Steve Ackerlund.

**ACTIVITIES ANTICIPATED IN NEXT QUARTER:**

- . Review and provide comment for the BPSOU Conceptual Agreement.
- . Provide technical support for the Butte Health Monitoring Study Phase 2.
- . Provide technical support on the NIH/INBRE Grant – Bridging the Gap. Health Perceptions and Superfund.
- . Continue to gain Feedback from the community on Superfund questions concerns.
- . Focus on technical assistance.
- . Focus on outreach strategy.
- . Focus on new outreach material.
- . Focus on partnering with other local entities.
- . Provide support to EPA Community Involvement Coordinator for Butte Superfund sites.
- . Provide support to EPA Remedial Project Managers for Butte Area Superfund sites.
- . Focus on technical support and outreach for phase II of the Butte health study.
- . Work on strategic plan (a working document).
- . Work on Scope of Work plan (a working document).
- . Focusing on spending most funds on CTEC technical advisors.
- . Focus on storm water issues and outreach.
- . Focus on surface water issues and outreach.
- . Focus on ground water issues and outreach.
- . Continue working on identifying priorities.
- . CTEC representative for the Restore Our Creek Coalition.
- . CTEC representative on the waterfowl committee focusing on geese safety at the Butte Mine Flooding Operable Unit - Berkeley Pit.
- . CTEC representative for the Butte Natural Resource Damage Program.
- . CTEC representative for Citizens for Labor and Environmental Justice.
- . CTEC representative for the Pitwatch Program.
- . Provide public outreach for the Residential Soils Program.
- . Provide technical support to neighborhood groups.
- . Provide technical support to the Butte Natural Resource Damage Council.
- . Provide technical support to B-SB Superfund Advisory Board - Redevelopment Trust Fund.
- . Provide technical support to Clark Fork Watershed Education Program.
- . Provide technical support to Butte Citizens for Labor and Environmental Justice.
- . Provide technical support to Pit Watch.
- . Provide technical support to the Science Mine.
- . Provide technical support to Project Green.
- . Provide technical support to the Imagine Butte Resource Center.
- . Provide technical support to the MT Tech Remediation/Restoration Seminar Series.
- . Provide technical support to the MT Tech Biology/Chemistry research Departments.
- . Provide technical support to the Native Plant Program at Mt Tech.
- . Provide technical support to the Butte Radio KBMF 102.5.
- . Provide technical support to the Montana Public Radio.
- . Provide technical support to the Montana Standard newspaper.
- . Provide technical support to the local news stations.

## DOCUMENTS RECEIVED THIS PERIOD at the - CTEC OFFICE

### July-September 2018

- . Unilateral Administrative Order Monthly Report of Activities – **Atlantic Richfield Co**
  - June 2018 (electronic)
  - July 2018 (electronic)
  - August 2018 (electronic)
- . Unilateral Administrative Order Monthly Report of Activities - **Butte-Silver Bow**
  - June 2018 (electronic)
  - July 2018 (electronic)
  - August 2018 (electronic)
- . Unilateral Administrative Order Monthly Report of Activities – **BNSF/UP**
  - June 2018 (electronic)
- . Butte Mine Flooding Operable Unit Monthly Reports: Montana Bureau of Mines and Geology
  - June 2018 (hard)
  - July 2018 (hard)
  - August 2018 (hard)
- . Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. Draft BPSOU 2018 Buffalo Gulch Groundwater Hydrocarbon Sampling Quality Assurance Project Plan (QAPP). Atlantic Richfield. July 2018. Electronic copy July 2, 2018. Emily Stoick – TREC.
- . Announcement. Blacktail Creek & Basin Creek Watershed and Beaver Mimicry Project Tour July 19, 2018. Electronic copy July 9, 2018. Evan Norman – Clarkfork Watershed Education Program.
- . EPA 2nd Comment letter and Crosswalk comments to NRD/DOJ: BPSOU Draft Final Parrot Removal Monitoring SAP, dated April 4, 2018. Electronic copy July 11, 2018. Nikia Greene – EPA.
- . EPA Comment Letter: BPSOU Draft 2017 BRES Technical Recommendations Report, 2017 BRES Draft CAP Report, dated May 16, 2018. Electronic copy July 11, 2018. Nikia Greene – EPA.
- . Butte-Silver Bow response to EPA comments. B-SB Snow Management Plan 2016. June 2018. Electronic Copy July 12, 2018. Julia Crain – B-SB.
- . Butte-Silver Bow response to EPA comments. B-SB Superfund Stormwater Operations

and Interim Maintenance Plan 2016. June 2018. Electronic Copy July 12, 2018. Julia Crain – B-SB.

- . Draft Butte Priority Soils Operable Unit (BPSOU) 2018 Buffalo Gulch and Grove Gulch Soils Characterization Sampling and Analysis Plan (SAP). Josh Bryson - Atlantic Richfield. July 16, 2018. Electronic copy July 16, 2018. Emily Stoick – TREC.
- . Draft Butte Priority Soils Operable Unit (BPSOU) 2018 Buffalo Gulch and Grove Gulch Soils Characterization SAP- EPA Region 8 QA Document Review Crosswalk. Nikia Greene - EPA. Josh Bryson - Atlantic Richfield. July 16, 2018. Electronic copy July 16, 2018. Emily Stoick – TREC.
- . Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit (BPSOU) Final Butte Reduction Works (BRW) Phase I Pre-Design Investigation (PDI) Work Plan and QAPP Atlantic Richfield July 16, 2018. Electronic copy July 16, 2018. Ruthmeri Gleason - Pioneer Technical Services.
- . EPA Comment letter to BNSF: BPSOU 2017 BRES Inspection and Technical Recommendations Report, dated May 23, 2018. Electronic copy July 18, 2018. Nikia Greene – EPA.
- . EPA Approval Letter to ARCO: BPSOU Draft Final Quarterly O&M Report BTL System- 1Q, 2Q, and 3Q 2017, dated April 16, 2018. Electronic copy July 18, 2018. Nikia Greene – EPA.
- . EPA Approval Letter to ARCO: BPSOU Revised Draft Final Missoula Gulch Catch Basins 1, 8, and 9 O&M Plan, dated April 23, 2018. Electronic copy July 19, 2018. Nikia Greene – EPA.
- . EPA Comment letter and crosswalk comments to ARCO: BPSOU Draft Final FTL and MSD subdrain QAPP, dated May 7, 2018. Electronic copy July 23, 2018. Nikia Greene – EPA.
- . EPA Approval letter to BNSF: BPSOU Railroads Final Revised 2017 Stormwater BMPs Inspection Report & Maintenance Work Plan, dated May 23, 2018. Electronic copy July 23, 2018. Nikia Greene – EPA.
- . Silver Bow Creek/Butte Area NPL Site. Final BPSOU Missoula Gulch Catch Basins (CB-1, CB-8, and CB-9) O&M Plan. Electronic copy July 24, 2018. Ruthmeri Gleason - Pioneer Technical Services.
- . Silver Bow Creek/Butte Area NPL Site. BPSOU Final Quarterly O&M 2017 reports BTL. Electronic copy July 24, 2018. Ruthmeri Gleason - Pioneer Technical Services.

- . Silver Bow Creek/Butte Area NPL Site. BPSOU 2017 Draft Final Surface Water DSR, Normal Flow and Wet Weather. Electronic copy July 27, 2018. Josh Bryson – Arco. Seth Garritty – Woodard Curran/TREC.
- . Silver Bow Creek/Butte Area NPL Site. BPSOU 2017 Draft Final DSR, Ground Water. Electronic copy July 27, 2018. Josh Bryson – Arco. Seth Garritty – Woodard Curran/TREC.
- . Silver Bow Creek/Butte Area NPL Site. BPSOU 2017 Draft Final Surface Water DSR, Butte Hill Diagnostic. Electronic copy July 27, 2018. Josh Bryson – Arco. Seth Garritty – Woodard Curran/TREC.
- . Announcement for the Upper Silver Bow Creek Corridor Community Design Workshops. August 7 and August 30, 2018. Electronic copy August 1, 2018. Josh Bryson – ARCO.
- . Fritz Daly – Comments on proposed community Design for the Upper Silver Bow Creek Corridor. Electronic copy August 6, 2018. Fritz Daly – ARCO.
- . EPA Comment Letter: BPSOU Draft Street & Snow Management Plan, dated June 11, 2018. Electronic copy August 6, 2018. Nikia Greene – EPA.
- . EPA Comment letter: BPSOU Draft Buffalo Gulch and Grove Gulch Site Characterization Work Plans, dated June 1, 2018. Electronic copy August 7, 2018. Nikia Greene – EPA.
- . EPA Approval letter: BPSOU Interim Operations and Maintenance Plan for Superfund Storm Water System, dated June 11, 2018. Electronic copy August 7, 2018. Nikia Greene – EPA.
- . EPA Comment letter and crosswalk comments: Draft BPSOU 2018 Buffalo Gulch Groundwater Hydrocarbon Sampling QAPP, dated July 2, 2018. Electronic copy August 13, 2018. Nikia Greene – EPA.
- . Silver Bow Creek/Butte Area NPL Site. Draft Final MSD Sub-Drain Video Inspection Report. Electronic Link August 13, 2018 bad link – Connie Logan - Pioneer.
- . EPA Comment letter and Crosswalk: BPSOU BRW Phase I QAPP dated July 16, 2018. Electronic copy August 14, 2018. Nikia Greene – EPA.
- . EPA Approval letter: BPSOU Draft Final Quarterly O&M Report BTL System-First Quarter 2018, dated May 8, 2018. Electronic copy August 14, 2018. Nikia Greene – EPA.
- . Fritz Daly – Comments on Butte Priority Soils Progress. Electronic copy August 16, 2018. Fritz Daly – ARCO.

- . Revised Draft Final Annual Operations and Maintenance (O&M) Report Butte Treatment Lagoon (BTL) System – 2017. Electronic copy August 20, 2018. Ruthmeri Gleason - Pioneer Technical Services.
- . Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. Bres 2017 Draft Corrective Action Plans for Quadrant 2. Electronic copy August 20, 2018. Julia Crain – B-SB.
- . EPA Comment letter and Crosswalk comments: Draft BPSOU Buffalo Gulch and Grove Gulch Soils Characterization SAP, dated July 16, 2018. Electronic copy August 21, 2018. Nikia Greene – EPA.
- . Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Revised DF Reclaimed Areas Maintenance and Monitoring QAPP. Electronic copy August 22, 2018. Ruthmeri Gleason - Pioneer Technical Services.
- . Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Final Quarterly OM Report BTL System First Quarter 2018. Electronic copy August 23, 2018. Ruthmeri Gleason - Pioneer Technical Services.
- . Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit (BPSOU) Revised Draft Final Reclaimed Areas Maintenance and Monitoring Quality Assurance Project Plan (QAPP) and EPA crosswalk table. Josh Bryson – Arco. Electronic copy August 23, 2018. Ruthmeri Gleason - Pioneer Technical Services.
- . Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit BPSOU. BNSF Railroad Asset O&M QAPP. Electronic copy August 23, 2018. Jeremie Maehr – Kennedy Jenks.
- . Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit BRW Phase I Quality Assurance Project Plan. Josh Bryson – Arco. Electronic copy August 28, 2018. Ruthmeri Gleason - Pioneer Technical Services
- . Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Draft Final Quarterly O&M Report BTL System Second Quarter 2018. Josh Bryson – ARCO. Electronic copy August 30, 2018. Ruthmeri Gleason - Pioneer Technical Services.
- . Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Revised Draft Final BTL Groundwater Treatment System Routine OM&M Plan. Josh Bryson – ARCO. Electronic copy August 30, 2018. Ruthmeri Gleason - Pioneer Technical Services.

- . Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Approval Letter: BPSOU BRW Phase 1 QAPP, dated August 28, 2018. Electronic copy August 31, 2018. Nikia Greene – EPA.
- . Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit BPSOU Buffalo Gulch and Grove Gulch Soils Characterization SAP. Josh Bryson – ARCO. Electronic copy September 4, 2018. Emily Stoick – TREC.
- . Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit BPSOU Buffalo Gulch and Grove Gulch PDI Work Plans. Josh Bryson – ARCO. Electronic copy September 5, 2018. Emily Stoick – TREC.
- . Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit BPSOU Buffalo Gulch Hydrocarbon Sampling QAPP. Josh Bryson – ARCO. Electronic copy September 5, 2018. Emily Stoick – TREC.
- . Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Final Unreclaimed Sites QAPP. Josh Bryson – ARCO. Electronic copy September 6, 2018. Emily Stoick – TREC.
- . Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable EPA Approval Letter to BSB: BPSOU 2017 Field Evaluation of Previously Reclaimed Sites and 2017 BRES Summary Report, dated May 21, 2018. Electronic copy September 10, 2018. Nikia Greene – EPA.
- . Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Draft Final Northside Tailings and Diggings East Remedial Design (RD) Work Plan. Josh Bryson – ARCO. Electronic copy September 10, 2018. Ruthmeri Gleason - Pioneer Technical Services.
- . Butte Priority Soils Operable Unit, Butte Reclamation Evaluation System 2017 Butte Reclamation Evaluation System Corrective Action Plans for Reclaimed Sites 2017 BRES Site Specific Corrective Action Plans. Electronic copy September 11, 2018. Julia Crain – BSB.
- . Butte Priority Soils Operable Unit, EPA Approval Letter Butte Reclamation Evaluation System 2017 Butte Reclamation Evaluation System Corrective Action Plans for Reclaimed Sites 2017 BRES Site Specific Corrective Action Plans dated September 6, 2018. Electronic copy September 13, 2018. Nikia Greene - EPA.
- . Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Draft Approval



letter: BPSOU DF 2017 Groundwater DSR, dated July 27, 2018. Electronic copy September 17, 2018. Nikia Greene - EPA.

- . Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Approval Letter: BPSOU Draft Final 2017 SW DSR: Butte Hill Diagnostic, dated July 27, 2018. Electronic copy September 17, 2018. Nikia Greene - EPA.
- . Butte Natural Resource Damage Council Meeting announcement. September 20, 2018. Electronic. Pat Cunneen - BNRC.
- . Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Approval Letter: BPSOU Draft Final 2018 Buffalo Gulch GW Hydrocarbon Sampling QAPP, dated September 5, 2018. Electronic copy September 18, 2018. Nikia Greene - EPA.
- . Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Approval letter: BPSOU Draft Final 2018 Buffalo Gulch and Grove Gulch Soils Characterization SAP, dated September 4, 2018. Electronic copy September 24, 2018. Nikia Greene - EPA.
- . Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit BPSOU Buffalo Gulch Groundwater Hydrocarbon Sampling QAPP. Josh Bryson – ARCO. Electronic copy September 25, 2018. Emily Stoick – TREC.
- . Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit BPSOU 2017 Final Data Summary Report, Ground Water. Electronic copy September 25, 2018. Josh Bryson – ARCO. Seth Garritty – Woodard Curran/TREC.
- . Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit BPSOU 2017 Draft Final Surface Water DSR, Baseflow and Wet Weather. Electronic copy September 25, 2018. Josh Bryson – ARCO. Seth Garritty – Woodard Curran/TREC.
- . Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit BPSOU 2017 Final Surface Water DSR, Butte Hill Diagnostic. Electronic copy September 25, 2018. Josh Bryson – ARCO. Seth Garritty – Woodard Curran/TREC.

## **MEDIA**

### **July - September 2018**

#### **Montana Public Radio**

Perception of Butte Health. CTEC – Bill Macgregor and Janice Hogan. Nora Saks. September 2018.

**Montana Standard**

A river runs into trouble: Clark Fork cleanup to resume, with challenges SUSAN DUNLAP susan.dunlap@mtstandard.com Aug 19, 2018

Acting EPA Administrator Andrew Wheeler makes historic visit to Butte, Anaconda Friday SUSAN DUNLAP susan.dunlap@mtstandard.com Sep 7, 2018

Agreement reached on Anaconda Superfund cleanup  
SUSAN DUNLAP susan.dunlap@mtstandard.com Jul 29, 2018

An amenity instead of a liability': Workshop focuses on future use of Superfund project areas TED McDERMOTT ted.mcdermott@mtstandard.com Aug 30, 2018

Atlantic Richfield's change-of-venue request denied in Opportunity Superfund lawsuit SUSAN DUNLAP susan.dunlap@mtstandard.com Aug 20, 2018

Benevento: EPA head Scott Pruitt resignation won't affect Butte From the Complete coverage: President Trump's visit to Montana series SUSAN DUNLAP and THE ASSOCIATED PRESS susan.dunlap@mtstandard.com Jul 5, 2018

Comments sought on plan to expand the Yankee Doodle Tailings Impoundment TED McDERMOTT ted.mcdermott@mtstandard.com Sep 20, 2018

Community members push back on EPA, want restored creek  
SUSAN DUNLAP susan.dunlap@mtstandard.com Jul 13, 2018

Community Superfund workshops set for Thursday  
THE MONTANA STANDARD Aug 28, 2018

Construction still hasn't started on Montana Pole Plant cleanup  
SUSAN DUNLAP susan.dunlap@mtstandard.com Jul 22, 2018

Done deal: Council OKs new, cheaper plan for county shops  
MIKE SMITH mike.smith@mtstandard.com Sep 26, 2018

Free arsenic, lead testing for Anaconda residents next Friday through Monday  
TED McDERMOTT ted.mcdermott@mtstandard.com Sep 7, 2018

Guest view: Collaboration could take Butte cleanup from good to great  
NORTHEY TRETHEWAY, SISTER MARY JO McDONALD, BILL  
MacGREGOR, JOCELYN DODGE, ED SIMONICH, MARY KAY CRAIG,  
DOUG COE, LARRY CURRAN and EVAN BARRETT Aug 12, 2018

Guest view: Effort to censor science at EPA must be stopped  
ROBIN SAHA Aug 17, 2018

Guest view: Health studies cast doubt on effectiveness of cleanup  
JOHN W. RAY Sep 5, 2018

Guest view: Health study leaves much to be desired  
JOHN W. RAY Aug 7, 2018

Ideas ow like water at workshop on creek corridors  
DAVID McCUMBER david.mccumber@mtstandard.com Aug 7, 201

Montana Resources could take tailings waste from the Butte Hill Superfund cleanup  
SUSAN DUNLAP susan.dunlap@mtstandard.com Jul 18, 2018

Montana Tech scientist finds elevated metals in dust, local residents, but urges  
calm, more study SUSAN DUNLAP susan.dunlap@mtstandard.com Sep 2, 2018

New study: Butte and Anaconda have higher death rates for cancer, some other  
diseases than all other Montana counties SUSAN DUNLAP  
Susan.dunlap@mtstandard.com Sep 2, 2018

Parrot project discovers more extensive contamination than many expected  
TED McDERMOTT ted.mcdermott@mtstandard.com Sep 24, 2018

Scientists and students test osprey for signs of metal reclamation  
SUSAN DUNLAP susan.dunlap@mtstandard.com Jul 19, 2018

Standard view: Administrator visit was a big plus — now let's get the work done  
Sep 9, 2018

Standard view: Cleanup won't be done until there's a creek  
Aug 5, 2018

STANDARD VIEW SUPERFUND Standard view: Ignoring the elephant in the waterway Aug 19, 2018

Studies to look at how contamination from mining, smelting might be impacting Butte's health SUSAN DUNLAP susan.dunlap@mtstandard.com Jul 25, 2018

The Public's Health: Study links green space to community well-being KAREN SULLIVAN for The Montana Standard Aug 21, 2018



### Superfund 101: Landscape Design in the Silver Bow Creek Corridor with Stacey Robinson

Stacey Robinson of Land Design Inc, a Billings landscape architecture firm contracted to draft the plan for Butte Area One, talks about the challenges and opportunities of the historic Silver Bow Creek Corridor and what was gleaned from the community for the project.

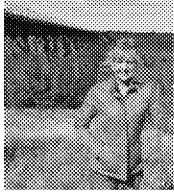
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### Superfund 101: Suzanne McDermott

Suzanne McDermott is the author of a new paper entitled "Population-Based Mortality Suggests Remediation is Modestly Effective in Two Montana Superfund Counties." Suzanne spoke about her findings at Montana Tech recently and this episode of Superfund 101 is an overview of her presentation.

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## Superfund 101: Mary McCormick on the Intersection of Cleanup and Historic Preservation

Mary McCormick is the Historic Preservation Officer for Butte and in this episode talks about the future use of some of Butte's most iconic mine yards: The Anselmo, Steward and Lexington. Once the epicenters for toxins, they will one day be hubs for education and history.

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## Superfund 101: Norman DeNeal

Norman DeNeal talks in this episode about his work restoring the Lexington Stamp Mill and Steward Mine Yard. His vision includes beautiful gardens and canopies of aspen, all while telling the history of the ground they are planted in.

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## Superfund 101: Mokai Malope

Mokai Malope is Pedi, and visiting Butte from South Africa this fall. Curious about his impressions of the cleanup process here and interested in South African Mining practices, I asked him on the show so that

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Julia Crain, the special projects planner for Butte Silver Bow, joins Superfund 101 for her second appearance to brainstorm end land use for Butte Area One and invite the public to attend a series of community building workshops, the next of which is occurring Thursday August 30th at Noon and 6pm in Butte Brewing's Conference room.

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Jon Sesso and Eric Hassler from Butte Silver Bow's Superfund division explain the work plan for the recently released conceptual agreement. Reclaimed caps on the hill and stormwater management in the Historic Silver Bow Creek Corridor are discussed.

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### Superfund 101: Nikia Greene and the Health Study

Nikia Greene is Remediation Project Manager for Butte Priority Soils and oversees the EPA mandated health study that comes out once every five years. In this episode we talk about what data the health study looks at and what effect it's outcome has on policy.

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### Superfund 101: Evan Barrett and Economic Development

Evan Barrett discusses the importance of a free flowing waterway in the historic Silver Bow Creek channel and the importance for the economic future of Butte in having that corridor restored.

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